YAMAHA

DSP-AX861SE

7.1-Channel Digital Home Theatre Amplifier

NEW PRODUCT BULLETIN

The home theatre amplifier that expands your entertainment horizons with a wide choice of sources and also has great features like high-definition video upscaling and deinterlacing, 1080p-compatible HDMI, Yamaha's new SCENE and iPod compatibility.

UK Tuned

DIGITAL ToP·ART Brilliant Audio: Titanium

HDMI · DOLBY DIGITAL·EX PRO LOGIC IIx · dts Digital Surround Neo:6 | 96/24 | ES · 8CH EXT. INPUT

CINEMA DSP DIGITAL · SILENT CINEMA · compressed music ENHANCER · SCENE · YPAO

1 Advanced Features

- 4 SCENE buttons on front panel and remote unit offering easier operation
- iPod compatibility via optional Yamaha YDS-10
- Improved YPAO supporting low frequency to 31.5Hz with auto setup
- Direct-access (macro-command, learning and preset capable) remote unit
- On-screen display including HDMI output

2 High Sound Quality

- 7-channel 735W powerful surround sound (105W x 7)
- Digital ToP-ART and High Current Amplification
- HDMI Ver. 1.2a with support for Super Audio CD
- Pure Direct for high quality sound reproduction
- Burr-Brown 192kHz/24-bit DACs used in all channels
- Assignable amplifiers for bi-amp connection

3 High Picture Quality

- High-definition video upscaling (480i/576i or 480p/576p to 720p/1080i)
- Deinterlacing (480i/576i to 480p/576p) through HDMI output
- 1080p-compatible HDMI (2 in/1 out)

4 Surround Realism

- Upgraded CINEMA DSP with 17 DSP programmes
- Compressed Music Enhancer
- Night Listening Enhancer (Cinema/Music) and SILENT CINEMA
- AudioDelay for adjusting lip sinc (0–160ms)

17 DSP Programmes	
Compatible Decoder Straight	
	Dolby Digital
	Dolby Digital EX
	DTS Digital Surround
	DTS-ES Matrix 6.1
	DTS-ES Discrete 6.1
	DTS 96/24
	Dolby Pro-Logic
	Dolby Pro Logic II Music
	Dolby Pro Logic II Movie
	Dolby Pro Logic II Game
	Dolby Pro Logic IIx Music
	Dolby Pro Logic IIx Movie
	Dolby Pro Logic IIx Game
	DTS Neo:6 Music
	DTS Neo:6 Cinema
HiFi DSP Programmes	
CLASSICAL	Hall in Munich
	Hall in Vienna
	Chamber
LIVE/CLUB	Cellar Club
	The Roxy Theatre
	The Bottom Line
STEREO	7 Channel Stereo
CINEMA DSP Programmes	
MOVIE	Standard
	Spectacle
	Sci-Fi
	Adventure
	Drama
	Mono Movie
ENTERTAINMENT	Sports
	Action Game
	Roleplaying Game
	Music Video
DSP Programme Total	**17**

●: HiFi DSP Programmes ●: CINEMA DSP Programmes
●: Tri-Field CINEMA DSP ●: Quad-Field CINEMA DSP

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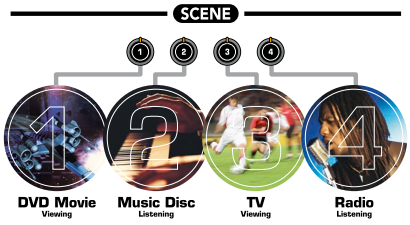
DSP-AX861SE 7.1-Channel Digital Home Theatre Amplifier

NEW PRODUCT BULLETIN

Advanced Features

SCENE — A New Level of Operating Ease

Four SCENE buttons make operating the amplifier easier than ever. They are initially set to default settings for DVD Movie Viewing, Music Disc Listening, TV Viewing and Radio Listening. Pressing a SCENE button automatically launches a number of operations that initiate play of the source controlled by that button. Other SCENE settings are also available, such as iPod Listening, TV Sports viewing and Action Game Playing. Browsing and selecting the settings is quickly accomplished by rotating the Input knob and watching the on-screen display. The settings can be selected for one-time use, or they can replace the original default settings. The SCENE names can be changed also.



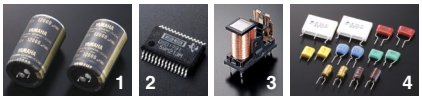
Improved YPAO Sound Optimization

The DSP-AX861SE has an improved YPAO system that automatically selects the crucial frequency bands for the listening room, and adjusts the level of the selected bands to create a cohesive sound field in the room. You can vary the type of the parametric equalizer adjustment among Natural, Flat and Front.

High Sound Quality

Digital ToP-ART with Superior Audio-Grade Parts and Devices Used Throughout

Yamaha's Digital ToP-ART concept combines the latest and best technologies, parts and circuit designs to maximize sound quality. These include an 12,000µF custom-made block capacitor (1), high grade Burr-Brown DACs (2), and two direct signal path speaker relays (3) and other high quality audio-grade parts (4). High Current Amplification uses superior components to achieve high current power and low impedance from the power supply to the speaker terminals.



Pure Direct for Highest Sound Quality

Pure Direct is a special amplifier mode that causes the signal to bypass all but the most basic audio circuitry, and even turns off the display to prevent any chance of noise interference. It provides the purest possible high-fidelity sound from all sources including HDMI inputs.

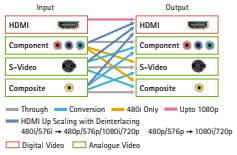
HDMI Ver. 1.2a with Support for Super Audio CD

This amplfier incorporates the High-Definition Multimedia Interface (HDMI) 1.2a specification. Listeners can enjoy crystal-clear, digital audio quality via a single HDMI cable, including Super Audio CD.

High Picture Quality

High-Definition Video Upscaling (to 1080i/720p)

The DSP-AX861SE provides analogue video-upconversion of composite, S-Video 480i/576i signals and of component 480i/576i or 480p/576p signals to HDMI 1080i /720p resolutions for optimal viewing on high-definition displays. In addition, the analogue video signals deinterlaced from 480i/576i to 480p/576p are output at HDMI. It uses advanced processing including video encoding/decoding ICs from Analog Devices and a TBC (Time Base Corrector) to restore degraded video signals for distortion-free viewing.



1080p Compatible HDMI Inputs and Output

This amplifier features dual HDMI inputs and one output that support 1080p (1,920 x 1,080 progressive) resolution so users can connect two HDMI sources, such as a DVD player and a high definition set-top box, and enjoy the highest possible quality with a 1080p display.

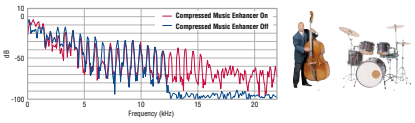
Surround Realism

Upgraded CINEMA DSP Programmes

Yamaha's popular CINEMA DSP programmes have been upgraded for this amplifier. Action and Roleplaying games deliver awesome sound with the latest game machines. Other programmes have been fine-tuned for even better sound and revised for easier selection.

Compressed Music Enhancer

When music is encoded in a digital compressed format such as MP3, frequency response suffers in the high and low ranges. Yamaha employs sophisticated digital signal processing with exclusive algorithms, enabling faithful reproduction of the original music, for the excellent sound quality expected from top class components.



The Compressed Music Enhancer restores the original, live sound of your music, especially deep, strong sounds like bass and drums.

Other Notable Features

- Burr-Brown 192kHz/24-bit DACs used in all channels
- Assignable amplifiers for bi-amp connection
- Aluminium front panel and volume/input selector knobs
- 3 HDTV compatible component video inputs
- iPod song titles displayed in English and Western European languages ISO 8859-1 (Latin1) on the front panel and on-screen display
- High-performance CINEMA DSP LSI (64-bit floating point quantization)
- Night Listening Enhancer (Cinema and Music), SILENT CINEMA and Virtual CINEMA DSP
- Dialogue Lift for dialogue to screen center
- Audio Delay for adjusting lip-sync (0–160ms)
- Preout terminals for front, centre, surround and surround back, and subwoofer out
- Direct-access (macro-command, learning and preset capable) remote unit
- 9 selectable subwoofer crossover frequencies
- Subwoofer phase select
- Analogue mixdown
- 8-channel external decoder input
- Phono input
- Speaker A, B, A+B selection
- Sleep timer

Universal Dock for iPod

YDS-10

The optional YDS-10 Universal Dock lets you connect your iPod to this amplifier. You can listen to your iPod music and watch iPod images and movies on your monitor via the amplifier. You can also operate your iPod via the amplifier's remote unit with the On-Screen Display and charge your iPod.

Made for iPod

iPod not included

Works with: iPod nano, iPod mini and iPod (Click/Wheel)

Inputs		
	HDMI	2
	Dock Terminal for YDS-10	1
	Optical Digital (Fixed and Assignable)	4
	Coaxial Digital (Fixed and Assignable)	2
	S-Video	5
	Analogue A/V / Audio*	5 / 4
	Component Video (Fixed & Assignable)	3
	Multi-Channel External Decoder	8ch

Outputs		
	HDMI	1
	Analogue A/V / Audio	2 / 1
	Optical Digital (Fixed and Assignable)	1
	S-Video	2
	Component Video Monitor	1
	S-Video / Composite Monitor	1 / 1
	Speaker (without subwoofer)	7ch / 9 ter.
	Subwoofer	1

* Including front panel Video Aux terminals.

Main Specifications

Minimum RMS Output Power (8 ohms, 20 Hz–20 kHz, 0.06% THD)	
Front L/R Channels	105 W + 105 W
Centre Channel	105 W
Surround L/R Channels	105 W + 105 W
Surround Back Channels	105 W + 105 W
Dynamic Power (1 kHz)	
8/6/4/2 ohms	140/175/205/250 W
Damping Factor (8 ohms, 20 Hz–20 kHz)	120 (speaker A)
Frequency Response	10 Hz—100 kHz +0, -3 dB
Total Harmonic Distortion (CD, Front Sp Out) (50 W/8 ohms)	0.06%
Signal-to-Noise Ratio (CD)	100 dB (250 mV)
Monitor Out Frequency Response Component Video Signal	5 Hz—60 MHz -3 dB
Standby Power Consumption	0.1 W
Dimensions (W x H x D)	435 x 171 x 421 mm
Weight	13.1 kg

d-cinema

"d-cinema" is the slogan of Yamaha A/V products and technology, reflecting our focus on digital technology and our leadership in creating and refining digital home theatre.

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